(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 23 June 2005 (23.06.2005)

PCT

(10) International Publication Number WO 2005/056800 A1

(51) International Patent Classification⁷: C12N 15/31, 15/03, 15/77, 15/09

(21) International Application Number:

PCT/KR2004/003031

(22) International Filing Date:

23 November 2004 (23.11.2004)

(25) Filing Language:

Korean

(26) Publication Language:

English

(**30**) **Priority Data:** 10-2003-0089711

10 December 2003 (10.12.2003) KR

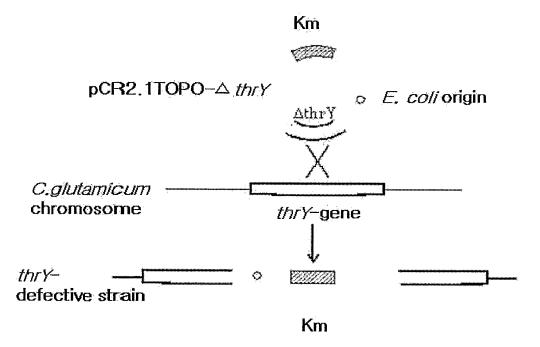
- (71) Applicant (for all designated States except US): CJ CORP. [KR/KR]; 500, Namdaemunno 5 ga, Jung-gu, Seoul 100-095 (KR).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): PARK, Young-Hoon [KR/KR]; 111-102, Mujigaedaerim Apt., Gumi-dong, Bundang-gu, Seongnam-si, Gyeonggi-do 463-703 (KR). LIM, Sang-Jo [KR/KR]; 103-1602, Dongseong 1cha Apt.,

501, Jukjeon2-dong, Yongin-si, Gyeonggi-do 449-845 (KR). **KIM, Seong-Jun** [KR/KR]; 307-1001, Pungnimsinan Apt., Gwonseon-dong, Gwonseon-gu, Suwon-si, Gyeonggi-do 441-390 (KR).

- (74) Agent: LEE, Duck-Rog; YEiL Patent & Trademark International, YEiLPAT Bldg., 669-17,, Yorksam-dong, Kangnam-ku, Seoul 135-915 (KR).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,

[Continued on next page]

(54) Title: A NOVEL L-THREONINE IMPORTER FROM CORYNEBACTERIUM AND A PREPARATION METHOD OF A STRAIN PRODUCING L-THREONINE



(57) Abstract: The present invention relates to a preparation method of an L-threonine producing strain by utilizing a novel L-threonine importer identified from *Corynebacterium glutamicum*. The method can be advantageously used for the production of L-threonine by increasing the fermentation concentration of Lthreonine and the yield per unit thereof.

WO 2005/056800 A1



FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

 with sequence listing part of description published separately in electronic form and available upon request from the International Bureau

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.